

Debarun Chakraborty

Lead Software Engineer

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Lead Software Engineer with 7+ years of experience building scalable backend systems, fintech integrations, and regulatory compliance platforms. Specialized in distributed systems, event-driven architectures, and PEPPOL-based e-invoicing solutions across UAE, KSA, and Malaysia. Experienced in leading technical initiatives end-to-end, mentoring engineers, and designing integration platforms that connect ERPs, payment providers, and tax authority systems at scale.

Work Experience

Lead Software Engineer · Marmin Tech

August 2024 - Present

- Led the architecture and rollout of UAE's PEPPOL-based 5-corner e-invoicing framework, enabling early compliance with FTA regulatory requirements.
- Designed scalable event-driven integration workflows for secure document exchange, validation, and interoperability across multiple PEPPOL partners.
- Built a low-code ERP integration middleware that reduced onboarding effort significantly and enabled rapid integrations with platforms like Xero and Shopify.
- Designed and implemented validation, messaging, and compliance pipelines for handling tax authority workflows and document lifecycle processing.
- Mentored engineers on distributed systems design, Domain-Driven Design (DDD), and backend architecture practices while driving engineering delivery across the platform.

Senior Consultant · Thoughtworks · India

August 2023 - July 2024

- Led integration of 25+ Payment Service Providers (PSPs) across MEA, Europe, and SEA regions within 4 months, supporting international market expansion.
- Developed reusable fintech tooling for KYC workflows, payment analytics, and operational monitoring, reducing customer issue resolution time by 35%.
- Improved engineering quality through code reviews, technical mentoring, and backend architecture standardization across teams.

Consultant · Thoughtworks · India

March 2019 - August 2023

- Contributed to a large-scale retail forecasting platform supporting pricing and inventory decisions across 1,100+ US stores.
- Built trend analysis and forecasting modules used by 100+ analysts for retail demand planning and pricing optimization.
- Optimized ETL workflows and data processing pipelines, reducing execution time from 75 minutes to 30 minutes.
- Worked across backend services, data pipelines, and distributed processing systems in agile delivery environments.

STEP Intern · STEP Intern

July 2017 - March 2019

- Software development, foundational training, and contributions to early project modules.

Skills

Domain Expertise: PEPPOL · E-invoicing · Fintech Integrations · Payments · Retail Forecasting

Languages: Go · Java · Javascript · Node.js

Backend & Architecture: Microservices · Distributed Systems · API design · Event-driven architecture

Messaging & Data: RabbitMQ · Redis · PostgreSQL · MongoDB

Cloud & Devops: AWS · Docker · Kubernetes · Terraform · Jenkins · Ansible · GoCD

Other:

Education

Alagappa University | Bachelor of Computer Application - BCA

Grad December 2020

Computer Science

APC Roy Polytechnic | Diploma

Grad December 2017

Computer Science and Technology